						SHEET <u>I</u> OF <u>8</u>
INFORMATION DISCLOSURE				SURE	ATTY. DOCKET NO.	SERIAL NO
					068911-0160	40/200 404
10 PA ADDITION						10/590,424
PTO-1449) U.S. PATENT					APPLICANT John G. Babish et al.	
(PTO-1449)					FILING DATE 04/02/2007	GROUP <b>1627</b>
Gam				U.S. PATEN	T DOCUMENTS	
EXAMINER'S INITIALS	CITE NO.		Document Number nber-Kind Code2 (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applic of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US	3,451,821	6/24/1969	Todd et al.	
	A2	US	4,758,445	7/19/1988		
	A3	US	5,370,863	12/6/1994	Barney, et al.	
	A4	US	5,866,162	2/9/1999	· <del>  </del>	
	A5	US	6,210,701	4/3/2001	Darland et al.	
	A6	US	6,224,871	5/1/2001	Hastings et al.	
	A7	US	6,264,995	7/24/2001		
	A8	US	6,291,483	9/18/2001	Upadhyay et al.	
	A9	US	6,482,456	11/19/2002		
	A10	US	6,492,429	12/10/2002	2 Graus et al.	
	A11	US	7,144,590	12/5/2006		
	A12	US	7,195,785	3/27/2007	Babish et al.	
	A13	US	7,205,151	4/17/2007	Babish et al.	
	A14	US	7,270,835	9/18/2003	7 Tripp et al.	
	A15	US	7,332,185	2/19/2008	Babish et al.	
	A16	US	7,431,948	10/7/2008	Tripp et al.	
	A17	US	20020156087	10/24/2002	Nuss et al.	
	A18	US	20030003212	1/1/2003	Chien et al.	
	A19	US	20030008021	1/9/2003	Babish et al.	
	A20	US	20030035851	2/20/2003	3 Chen	
	A21	US	20030228369	12/11/2003	3 Kuhrts	
	A22	US	20040115290	6/17/2004	Tripp et al.	
	A23	US	20050042317	2/24/2005		
	A24	US	20050129791	6/16/2005	Babish et al.	
	A25	US	20050191375	9/1/2005	Babish et al.	
	A26	US	20050192356	9/1/2005	Babish et al.	
	A27	US	20060127511		Tripp et al.	
	A28	US	20060127512	6/15/2000	Tripp et al.	
	A29	US	20060127513	6/15/2000		
	A30	US	20060127514	6/15/2000	· · · · · · · · · · · · · · · · · · ·	
	A31	US	20060127515	6/15/2000		
	A32	US	20060127516	6/15/2000	<del></del>	
	A33	US	20060127517	6/15/2000	·	
EXAMINER					DATE CO	ONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

## **SERIAL NO** INFORMATION DISCLOSURE ATTY, DOCKET NO. 068911-0160 CITATION IN AN 10/590,424 **APPLICATION APPLICANT** John G. Babish et al. FILING DATE **GROUP** (PTO-1449) 04/02/2007 1627 U.S. PATENT DOCUMENTS **EXAMINER'S** CITE Document Number **Publication Date** Pages, Columns, Lines, Where Name of Patentee or Applicant INITIALS NO. Number-Kind Code<sub>2 (if known)</sub> MM-DD-YYYY Relevant Passages or Relevant of Cited Document Figures Appear A34 US 20060193933 8/31/2006 Tripp et al. US A35 20060233902 10/19/2006 Yajima et al. A36 US 20070003646 1/4/2007 Kuhrts US A37 20070020352 1/25/2007 Tripp et al. A38 US 7/12/2007 20070160692 Tripp et al. A39 US 20070166418 7/19/2007 | Tripp et al. A40 US 20070172532 7/26/2007 Babish et al. A41 US 20070184133 8/9/2007 Tripp et al. A42 US 20080127720 6/5/2008 | Pauli et al. A43 US 20080248131 10/9/2008 Tripp et al. A44 US 20090118373 5/7/2009 Tripp et al. A45 A46 A47 A48 A49 A50 A51 A52 A53 A54 A55 A56 A57 A58 A59 A60 A61 A62 A63 A64 A65 A66 A67 **EXAMINER** DATE CONSIDERED

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

## **SERIAL NO** INFORMATION DISCLOSURE ATTY, DOCKET NO. 068911-0160 CITATION IN AN 10/590,424 **APPLICATION APPLICANT** John G. Babish et al. FILING DATE **GROUP** (PTO-1449) 04/02/2007 1627 FOREIGN PATENT DOCUMENTS **EXAMINER'S** Foreign Patent Document **Publication Date** Name of Patentee or Pages, Columns, Lines Translation INITIALS Applicant of Cited Document Where Relevant Country Code3 - Number 4 - Kind Codes (if known) CITE MM-DD-YYYY Figures Appear NO. Yes No **B1** CN 1203268 12/30/1998 China Abstract B2 DE 1901277 8/6/1970 Partipharm AG, Basel B3 EP 0229022 7/15/1987 Sunshine et al. EP 0606599 A1 7/20/94 Miller Brewing Co. **B4** EP 0681029 A2 11/8/95 Zuyckerforschung **B5** B6 EP 1 938 828 7/2/2008 Raul et al. В7 EP 1543834 6/22/05 **Biodynamics** EP 1481671 12/1/2004 Kirin Beer Kabushiki B8 Kaisha В9 GB 2330076 4/14/99 S.S. Steiner, Inc. JP 07165583 6/27/1995 Sunshine et al. (corresponding to EP B10 0229022) B11 JP 08073369 3/18/96 Fuairudo KK JP 09502202 3/4/1997 Mitra (corresponding to WO **B12** 95007079) JP 10179129 7/7/1998 Sapporo Breweries B13 Ltd B14 JP 11246399 9/14/1999 Heisei B15 JP 11335231 12/7/1999 Shiseido Co. Ltd. JP 11513037 11/9/1999 Leeves et al. **B16** (corresponding to WO 97049405) **B17** JP 2001161338 6/19/2001 Kyodo Shoji B18 JP 2002-12550 1/15/02 Noevir Co. LTD JP 2002-505296 2/19/2002 NPS Pharmaceuticals **B19** (corresponding to Inc. WO99/44623) JP 52145509 B20 12/3/1977 Matsui Daigo Nutritive **B21** JP 59059623 4/5/1984 Chemicals, Ltd. **EXAMINER** DATE CONSIDERED

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## SERIAL NO INFORMATION DISCLOSURE ATTY, DOCKET NO. 068911-0160 CITATION IN AN 10/590,424 APPLICATION **APPLICANT** John G. Babish et al. **FILING DATE GROUP** (PTO-1449) 04/02/2007 1627 FOREIGN PATENT DOCUMENTS EXAMINER'S Foreign Patent Document Publication Date Name of Patentee or Pages, Columns, Lines Translation INITIALS MM-DD-YYYY Applicant of Cited Document Where Relevant CITE Country Code3-Number 4-Kind Codes (if known) Figures Appear NO. Yes No **B22** JP 58009084 2/18/1983 Matsui T. OXFORD NATURAL B23 WO 00/74696 12/14/00 PRODUCTS PLC B24 WO 02/02582 1/10/02 Deutsches WO 02/32234 (corresponding to US B25 20030077313) 4/25/2002 Anton et al. **B26** WO 03/035007 5/1/2003 Babish et al. WO 03/068205 (corresponding to US Kirin Beer Kabushiki 2006233902) **B27** 8/21/2003 Kaisha B28 WO 03/075943 9/18/2003 Chen B29 WO 2003/000185 1/3/2003 Babish et al. **B30** WO 2003/035007 5/1/2003 Metaproteomics LLC B31 WO 2004/037180 5/6/04 Metaproteomics LLC Lipoprotein WO 2004/062611 B32 7/29/04 Technologies Inc. **B33** WO 2005/084230 9/15/05 Metaprotemomics **B34** WO 2006/053249 5/18/2006 Babish et al. B35 WO 2006/062681 6/15/2006 Babish et al. B36 WO 2007/067812 6/14/2007 Trip et al. B37 WO 95007079 3/16/1995 Mitra **B38** WO 97/31630 9/4/1997 U. of Minnesota B39 WO 97049405 12/31/1997 Leeves et al. B40 WO 99/44623 NPS PHARMA INC 9/10/99 B41 WO 99/61038 12/2/1999 Krotzer et al. B42 WO 03/082249 10/9/03 Alcon, Inc. B43 ZA 200000857 8/29/01 Marx, Anna-Susan **EXAMINER** DATE CONSIDERED

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			ATTY. DOCKET NO. 068911-0160	SERIAL NO 10/590,424		
			John G. Babish et al.			
(PTO-1449)			FILING DATE <b>04/02/2007</b>	GROUP 1627		
	OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
EXAMINER'S INITIALS	CITE	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher,				
	NO.	city and/or country where published.				
	Cl		abel-salam et al., Pharmacological Research, England 47(4), pp 311-340 (Apr. 2003)			
	C2	Albal, MV., et al., "Clinical evaluation of 34:91-2 (1986)	f berberine in mycotic infectior	ns." Indian J. Ophthalmol		
		Anto, et al., "Anti-inflammatory Activity	Anto, et al., "Anti-inflammatory Activity of Natural and Synthetic Curcuminoids", Pharmacy and			
	C3	Pharmacology Communications, 4(2), pp		(T. 1 1 0 0000)		
	C4	Baldermann et al., J. Chromatography A 1192(1):191-3 (May 23, 2008) (Epub Apr. 8, 2008);				
	C5	abstract only (1 page)  Bermejo, et al. Rev. Esp. Enferm. Dig. 95(9): 621-624 and 625-628 (2003)				
	C6	Bolick D et al., Endocrinology 144(12), pp 5227-5231 (Dec. 2003)				
	C7	Carroccio, et al. Clin. Chem. 49(6):861-867 (2003)				
	C8	Chattopadhyay et al., Current Science, 87(1) (July 10, 2004)				
	C9	Chen Wei-Jen et al., Journal of Agricultural and Food Chemistry 52(1), pp 55-64 (01/01/2004)				
	C10	CHOU et al. Eur. J. Biochem. 115:207-216 (1981)				
	C11	Chou, et al. Adv enzyme regul 22:27-55 (1983)				
	C12	Chou, et al. J. Biol. Chem. 252(18):6438-6442 (1977)				
	C13	Chou, et al., TIPS, pp. 450-454, Nov. 19	Chou, et al., TIPS, pp. 450-454, Nov. 1983			
	C14	Cohen, Protein Kinases - the major drug targets of the twenty-first century? Nature Reviews, 1: 309-315 (2002)				
		De Keukeleire "Fundamentals of Beer and Hop Chemistry" Quimica Nova, 23(1) pp 108-112				
	C15	(2000)	0700 4			
	C16 C17	EP Search Report for EP App. No. 07809709.4				
	C17	European Search Report EP 05 723 839.6				
	C19	European Search Report for corresponding EP Application No. 02737562.5 (4 pages)				
	(1)	European Search Report for related European Application No.: 02784313.5.  Exercise as Treatment for Arthritis, Rheumatic and Immunologic Diseases, Cleveland Clinic,				
	C20	www.clevelandclinic.org, March 14, 2000.				
	C21	Extended European Search Report EP 10				
	C22	Extended European Search Report EP 07				
	C23	Extended European Search Report EP 07				
	C24	Foucault et al., J. Chromatography A 803		stract only (3 pages)		
	C25	Gao et al., J. Food Sci. Nutr. Vol. 9, pp 240-244 (2004)				
EXAMINER			DATE C	ONSIDERED		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			ATTY. DOCKET NO. 068911-0160	SERIAL NO 10/590,424		
			APPLICANT John G. Babish et al.			
(PTO-1449)			FILING DATE <b>04/02/2007</b>	GROUP 1627		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	C26	Gerhauser, "Beer Constituents as Potenti Cancer 41; 1941-1954: (2005)	al Cancer Chemopreventive Ag	gents, EP Journal of		
	C27	Germany, "The Absolutely German Drin	k," contents of beer, 2004, 5 p	ages.		
	C28	Gilani, "Studies on Antihypertensive and Antispasmodic Activities of Methanol Extract of Acacia nilotica Pods", Phytotherapy Research 13: 665-669 (1999)				
	C29	Goldstein, et al. Am. J. Gastroenterol. 96(4):1019-1027 (2001)				
	C30	Hamberg, et al. J. Bio. Chem. 246(22):6713-6721 (1971)				
	C31	Information on "ArthroTrimTM product', downloaded from Internet 8/30/02				
	C32	Information on "Hops and Beer Flavours", IOB Technical Symposium, April 2001, pp. 1-9.				
	C33	Information on "Zyflamend and Zyflamend PM", downloaded from Internet 8/30/02.				
	C34	International Search Report for Corresponding PCT Application No. PCT/US05/41018; 2pp				
	C35	International Search Report for PCT /US06/30920, 08/03/07, 3 pages				
	C36	International Search Report for PCT/US06/47196				
	C37	Jach, Przegl Dermatol. 65(4):379-381 (1978)				
	C38	Jafri et al., Pakistan Journal of Science, Vol. 61, No. 4, pp 220-222 (2009, Dec.)				
	C39	Hops-Aromatic Beers, Technical University Technische Universitat Munchen, (11/30	nation of Hops Aroma and technological Measures for Products of ical University of Munich, 7 pp. corresponding to Kaltner, D., hen, (11/30/2000), pp. 1-193, plus Tabs. AH1-A			
	C40	Konda, et al., Arthritis & Rheumatism 62				
	C41	Lamy Virginie et al., Apoptosis, an Int'l 3 1242 (Aug. 25, 2008)	n Int'l Journal on Programmed Cell Death,13(10), pp 1232-			
	C42	Lamy Virginie et al., Carcinogenesis, 28	Virginie et al., Carcinogenesis, 28(7), pp 1575-1581 (July 2007)			
	C43	Lerman et al, FASEB Journal, Fed. Of A (2004, Jan. 1)	erman et al, FASEB Journal, Fed. Of American Soc. For Experimental Biol., Vol. 18, No. 4-5			
	C44	Lopes, Curr. Med Res Opin. 8(3):145-14	9 (1982)			
	C45	Mannering et al., Food, Nutrition and Ch	emical Toxicity X(X), pp 311-	323 (Jan. 1, 1993)		
	C46	Minich et al., Journal of nutrition and Me	etabolism, Vol. 2010, article ID			
	C47	Newark, et al., "Beyond Aspirin", pp. 147-151, Hohm Press (2000)				
	C48	Office Action issued for App. No. 11667	614 (068911-0198) mailed 04/			
	C49	Office Action issued for App. No. 11667	/615 (068911-0199) mailed 03/	16/2010		
EXAMINER			DATE	CONSIDERED		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

## SERIAL NO INFORMATION DISCLOSURE ATTY. DOCKET NO. 068911-0160 CITATION IN AN 10/590,424 APPLICATION **APPLICANT** John G. Babish et al. FILING DATE **GROUP** (PTO-1449) 04/02/2007 1627 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER'S** Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item **INITIALS** CITE (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. NO. C50 Office Action issued for App. No. 11701583 (068911-0178) mailed 02/08/2008 C51 Office Action issued for App. No. 11701583 (068911-0178) mailed 07/06/2009 C52 Office Action issued for App. No. 11701583 (068911-0178) mailed 11/26/2008 C53 Office Action issued in U.S. App. No. 10/464,834 (068911-0012) on 08/03/2010 Office Action issued in U.S. App. No. 10/532,388 (068911-0116) on 03/26/2010 C54 C55 Office Action issued in U.S. App. No. 10/590,301 (068911-0169) on 08/19/2010 C56 Office Action issued in U.S. App. No. 10/590,424 (068911-0160) on 06/29/2010 Office Action issued in U.S. App. No. 10/789,814 (068911-0075) on 06/11/2010 C57 C58 Office Action issued in U.S. App. No. 11/344,556 (068911-0142) on 09/03/2010 C59 Office Action issued in U.S. App. No. 11/344,556 (068911-0142) on 12/16/2009 C60 Office Action issued in U.S. App. No. 11/344,556 (068911-0142) on 03/27/2009 C61 Office Action issued in U.S. App. No. 11/344,557 (068911-0139) on 03/25/2010 C62 Office Action issued in U.S. App. No. 11/344,557 (068911-0139) on 04/21/2008 C63 Office Action issued in U.S. App. No. 11/344,557 (068911-0139) on 08/28/2009 C64 Office Action issued in U.S. App. No. 11/344,557 (068911-0139) on 01/10/2007 C65 Office Action issued in U.S. App. No. 11/344,557 (068911-0139) on 09/26/2007 C66 Office Action issued in U.S. App. No. 11/649,584 (068911-0175) on 03/03/2010 C67 Office Action issued in U.S. App. No. 11/344,552 (068911-0138) on 09/08/2010 Office Action issued in U.S. App. No. 11/501,393 (068911-0150) on 08/25/2010 C68 C69 Office Action issued in U.S. App. No. 12/030,335 (068911-0238) on 10/21/2010 C70 Office Action issued in U.S. App. No. 11/636,867 (068911-0172) on 08/30/2010 C71 Office Action issued in U.S. App. No. 11/729,696 (068911-0180) on 03/25/2010 Pairet, et al. Inflamm. Res 47(Supp. 2), s93-s101 (1998) C72 C73 Panglisch, Monafsschrift fuer Brauwissen Schaft, 43(1), 4-16 (1990) C74 Parts per Million, 1 page, 2004 Poullis, et al. J. Gastroenterol. Hepatol. 18:756-762 (2003) C75 C76 Q & A, (what does ppm or ppb mean?) 3 pages, 2004 Rahman, M.M., et al., "Conjugated linoleic acid inhibits osteoclast differentiation of RAW264.7 C77 cells by modulating RANKL signaling" J. Lipid Res., 47(8): 1739-1748, (2006) C78 Stephan T E et al., Biochemical Pharmacology, 55(4), pp 505-514, (Feb. 15, 1998) Stevens, Xanthohumol and related Prenylflavonoids from Hops and Beer: To Your Good Health, C79 Science Direct, 2pp (2004) **EXAMINER** DATE CONSIDERED

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			ATTY. DOCKET NO. 068911-0160	SERIAL NO 10/590,424		
THI DICTION			APPLICANT John G. Babish et al.			
(PTO-1449)			FILING DATE <b>04/02/2007</b>	GROUP 1627		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	C80	Suh, et al. Cancer Res 58:717-723 (198	(8)			
	C81	Supplemental European Search Report				
	C82	Supplementary European Search Report		o.: 05851567, 8PP		
	C83	Supplementary Partial European Search Report for related European Patent Application No. 05723895.8, 5 pages (2007)				
	C84	Tagashira M et al., Bioscience, Biotechnology, and Biochemistry, 59(4), pp 740-742 (April 1995)				
	C85	The national. 3 pages (1999)				
	C86	Tibble, et al. Drugs Today 37(2):85-96 (2001)				
		Turmeric: The Ayurvedic Spice of Life, published at				
	C87	www.bioponic.com/pdfs/TurmericAyurveda.pdf (2003)				
	C88	US News and world report re Palliative Care, 10 pages (2008)				
		Van Montfrans et al. Inflammatory Signal Transduction in Crohn's Disease and Novel Therapeutic Approaches. Science Direct, 06/2/2002, 20 pages. Biochemical Pharmacology, vol				
	C89	64, issues 5-6.				
	C90	Vanhoenacker, et al., Journal of Chromatography, Vol. 1035, No.1, (4-30-2004), pp.53-61				
	C91	Verzele, et al. Chemistry and analysis of hop and beer bitter acids, Developments in food science, 27, pages 44-51, 88-139 (1991).				
	C92	Verzele and De Keukeleire (eds.) Chemistry and Analysis of Hop and Beer Bitter Acids; Elsevier, Chapters 5, 20 pages (1991)				
	C93	Verzele and De Keukeleire (eds.) Chen	De Keukeleire (eds.) Chemistry and Analysis of Hop and Beer Bitter Acids; Elsevier,			
-	C94	Chapters 6, 8 pages (1991) Wang, et al. Free Padical Biology & Medicine 27:612-616 (1990)				
	074	Wang, et al. Free Radical Biology & Medicine 27:612-616 (1999)  Ward, et al., Therapeutic Potential of Phosphoinositide 3-Kinase Inhibitors, Chemistry &				
	C95	Biology, Vol. 10, 207-210, March 2003		ors, Chemistry &		
	C96	Written Opinion for corresponding PCT Application NO. PCT/US05/41018; 3 pp				
	C97	Yui, et al. Biol. Pharm. Bull. 26(6):753-760 (2003)				
	C98	Zhao Feng et al., Biological and Pharmaceutical Bulletin, 26(1), pp 61-65 (Jan. 2003)				
		2003)				
EXAMINER			DATE C	CONSIDERED		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.